

DERWENT- 1978-70821A

ACC-NO:

DERWENT- 198549

WEEK:

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TITLE: Basic steel-making slags treated with lime are fed into rotary drum furnace with lime to mfr. Portland cement clinker

PATENT-ASSIGNEE: CENT RECH METALLURGIQUES [CNRM]

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
BE 867392 A	September 18, 1978	FR
DE 2829370 A	January 25, 1979	DE
FR 2397460 A	March 16, 1979	FR
JP 54037094 A	March 19, 1979	JA
JP 85050737 B	November 9, 1985	JA

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DE 2829370A	N/A	1978DE-2829370	July 4, 1978

INT-CL-

CURRENT:

TYPE	IPC	DATE
CIPS	<u>C04 B 5/06</u>	20060101
CIPS	<u>C04 B 7/02</u>	20060101
CIPS	<u>C04 B 7/14</u>	20060101
CIPS	<u>C04 B 7/147</u>	20060101
CIPS	<u>C21 B 3/06</u>	20060101
CIPS	<u>C22 B 7/04</u>	20060101

ABSTRACTED-PUB-NO: BE 867392 A

BASIC-ABSTRACT:

Plant for exploiting metallurgical slags not contg. phosphorus, uses a furnace (a) with a vertical axis and height pref. equal to its dia. The slag is heated in the furnace (a) e.g. by ?1 burner with its bottom end dipping into the slag, and the furnace has a spout and is tilted for emptying. Devices are included for adding agents which reduce iron- and manganese-oxides, and for adding lime.

Furnace (a) is emptied into a rotary drum furnace (b) with an axis which is almost horizontal, but sloping towards its outlet, in furnace (b), the lime reacts with the reduced slag so Portland cement clinker is formed in furnace (b). Furnace (a) pref. has a taphole for removing Fe and Mn obtd. by the redn. of their oxides. See also 867391.

Slags which had only a few industrial or agricultural uses in the past can now be used as Portland cement.

TITLE- BASIC STEEL SLAG TREAT LIME FEED ROTATING DRUM FURNACE  
TERMS: MANUFACTURE PORTLAND CEMENT CLINKER

DERWENT-CLASS: L02 M22

CPI-CODES: L02-C03; M24-A07;